

**In the Specification**

Please amend paragraph [0034] of the Specification as follows:

[0034] Referring now to Fig. 6, a cross-section of a portion of scintillator array is illustrated. As previously discussed, scintillator array 56 includes a plurality of uniformly spaced scintillators 57. Interstitially spaced or disposed between adjacent scintillators is a reflector 84. The reflector is designed to maintain a relatively high light output for each scintillator as well as ~~produce~~prevent light and x-ray cross-talk between scintillators. In this regard, each reflector 84 is composed, in one embodiment, of three layers. Specifically, a composite layer 86 is sandwiched between a pair of reflective layers 88. Preferably, the composite layers are formed of a high atomic number metal and a low viscosity polymer. Examples of possible applicable high-Z metals include tungsten, tantalum, or other heavy metals which in powder form have a density greater than  $16\text{g/cm}^3$ . Any of a number of low viscosity commercially available epoxies, such polyurethane, may be used as the polymer component of the composite layers. While it is preferred that the polymer be dark in color to improve performance of the scintillator array, it is contemplated that lighter polymers may be used. That is, there is no color requirement for the polymer material. Additionally, it is preferred that the polymer be fabricated from a material that has a relatively high resistance to radiation.